

***IEEE/PES TRANSFORMERS COMMITTEE  
MEETING***

**AUDIBLE SOUND AND VIBRATION SC**

***April 12, 2001***

***Amsterdam, The Netherlands***

## **9.11 Audible Sound and Vibration - J. Puri, Chair**

The Subcommittee met on Tuesday, April 10 at 3:00p.m. With twelve members and five guests present. The minutes of the last meeting at Niagara Falls, Canada were approved with one editorial correction.

The following items were discussed:

### **9.11.1 WG Report**

There were no WG reports at this meeting.

### **9.11.2 SC Chairman's Report on NEMA Activities**

Jeewan Puri, the Subcommittee Chairman reported on the following subjects:

- Jeewan reported on a subcommittee survey on the subject of writing sound intensity and sound pressure measurement procedures. Prior to this meeting, the subcommittee members were sent:
  1. Copies of the present sound level measurement procedures as listed in IEEE Standards C57.12.90 and C57.12.91.
  2. A preliminary draft of sound intensity and pressure measurement procedure written based on IEC 60076-10 by J. Puri.
  3. The recommendations of nine volunteers who had prepared their comments after reviewing the above information.

After reviewing this information, the subcommittee members voted to keep sound level measurement procedures a part of the present IEEE C57.12.90 and C57.12.91 documents and to update these documents to include sound intensity and sound pressure measurement methods. A working group of 13 volunteers was formed to prepare the first draft of this test procedure.

The subcommittee also voted to write a guide on the subject of sound level measurement procedures in harmony with IEC 60076-10-1 sound level measurement guide.

### **9.11.3 NEMA Activities**

- Jeewan had proposed revised sound level tables for NEMA Standards TR1 and ST 20 for liquid filled and dry type transformers. These tables were extended based on a "Validity Check Equation" to include additional transformer kVA ratings.

This proposal has been reviewed by NEMA membership and is now being circulated for voting.

### **9.11.4 IEC Activities**

- Jeewan reported that IEC WG 25 has now prepared a committee draft (CD) of the sound level measurement guide IEC 60076-10-1. This is an excellent document for us to follow for writing a guide on this subject. However, this draft did not include an informative annex that

was proposed by Jeewan to present an analysis of NEMA sound level tables.

The subcommittee recommended that a simple reference to NEMA sound level tables should be sufficient.

There being no other business, the meeting adjourned at 5:00 p.m.

Jeewan Puri

SC Chairman